

ERROR CORRECTION FOR
PROGRAMMABLE LOGIC INTEGRATED CIRCUITS

[0075] Systems and methods for detecting and
correcting errors in programmable logic ICs are
5 provided. In one embodiment, a scrubber periodically
reads the memory cells in a programmable logic IC,
detects and corrects any errors, and writes the
corrected contents back into the memory cell. In
another embodiment, regions of memory cells in a
10 programmable logic IC each have associated error
correcting circuitry which operates to continuously
detect and correct errors as they occur. Error
correcting circuitry can further be designed to reduce
static hazards. It may be more desirable to design
15 programmable logic IC routing architectures that reduce
the number of memory cells needed to implement a given
function. Error correcting circuitry can be provided
for configuration memory or for an embedded memory
block on a programmable logic IC.